

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1 – 47 (Cancelled)

48. (New) A method comprising:

forming insulating spacers adjacent to sidewalls of a gate by forming an insulating layer and removing a portion of the insulating layer that is not on the sidewalls including performing a combination of a dry etch and then a wet etch; and

forming extension regions after forming the insulating spacers by ion implantation using the insulating spacers as a mask.

49. (New) The method of claim 48, further comprising:

removing the insulating spacers by performing a wet etch; and

after said removing the insulating spacers, forming a source and a drain by ion implantation.

50. (New) The method of claim 48, wherein said forming the insulating spacers comprises forming insulating spacers that each include a metal oxide.

51. (New) The method of claim 48, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 10-200 Angstroms.

52. (New) The method of claim 51, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 20-100 Angstroms.
53. (New) A method comprising:
- forming insulating spacers adjacent to sidewalls of a gate by depositing an insulating layer at a temperature that is higher than 750°C and anisotropically etching the insulating layer; and
- forming extension regions after forming the insulating spacers by ion implantation using the insulating spacers as a mask.
54. (New) The method of claim 53, wherein said depositing the insulating layer comprises depositing the insulating layer by low pressure chemical vapor deposition.
55. (New) The method of claim 53, further comprising:
- removing the insulating spacers by performing a wet etch; and
- after said removing the insulating spacers, forming a source and a drain by ion implantation.
56. (New) The method of claim 53, wherein said anisotropically etching the insulating spacers comprises performing a combination of a dry etch and then a wet etch.
57. (New) The method of claim 53, wherein said forming the insulating spacers comprises forming insulating spacers that each include a metal oxide.

58. (New) The method of claim 53, wherein said forming the insulating spacers comprises forming insulating spacers that each include an organic material.
59. (New) The method of claim 53, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 10-200 Angstroms.
60. (New) The method of claim 53, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 20-100 Angstroms.
61. (New) A method comprising:
- forming insulating spacers adjacent to sidewalls of a gate;
- forming extension regions after forming the insulating spacers by ion implantation using the insulating spacers as a mask;
- removing the insulating spacers by etching; and
- forming a source and a drain by ion implantation.
62. (New) The method of claim 61, wherein said removing the insulating spacers comprises performing a wet etch.
63. (New) The method of claim 61, wherein said forming the insulating spacers comprises growing an insulating layer over the gate by oxidation and removing a portion of the insulating layer that is not on the sidewalls.
64. (New) The method of claim 61, wherein said forming the insulating spacers comprises depositing an insulating layer at a temperature that is higher than 750°C and removing a portion of the insulating layer.

- 65. (New) The method of claim 61, wherein said forming the insulating spacers comprises depositing an insulating layer and removing a portion of the insulating layer by performing a combination of a dry etch and then a wet etch.
- 66. (New) The method of claim 61, wherein said forming the insulating spacers comprises forming insulating spacers that each include a metal oxide.
- 67. (New) The method of claim 61, wherein said forming the insulating spacers comprises forming insulating spacers that each include an organic material.
- 68. (New) The method of claim 61, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 10-200 Angstroms.
- 69. (New) The method of claim 68, wherein said forming the insulating spacers comprises forming insulating spacers that each have a thickness in a range between 20-100 Angstroms.